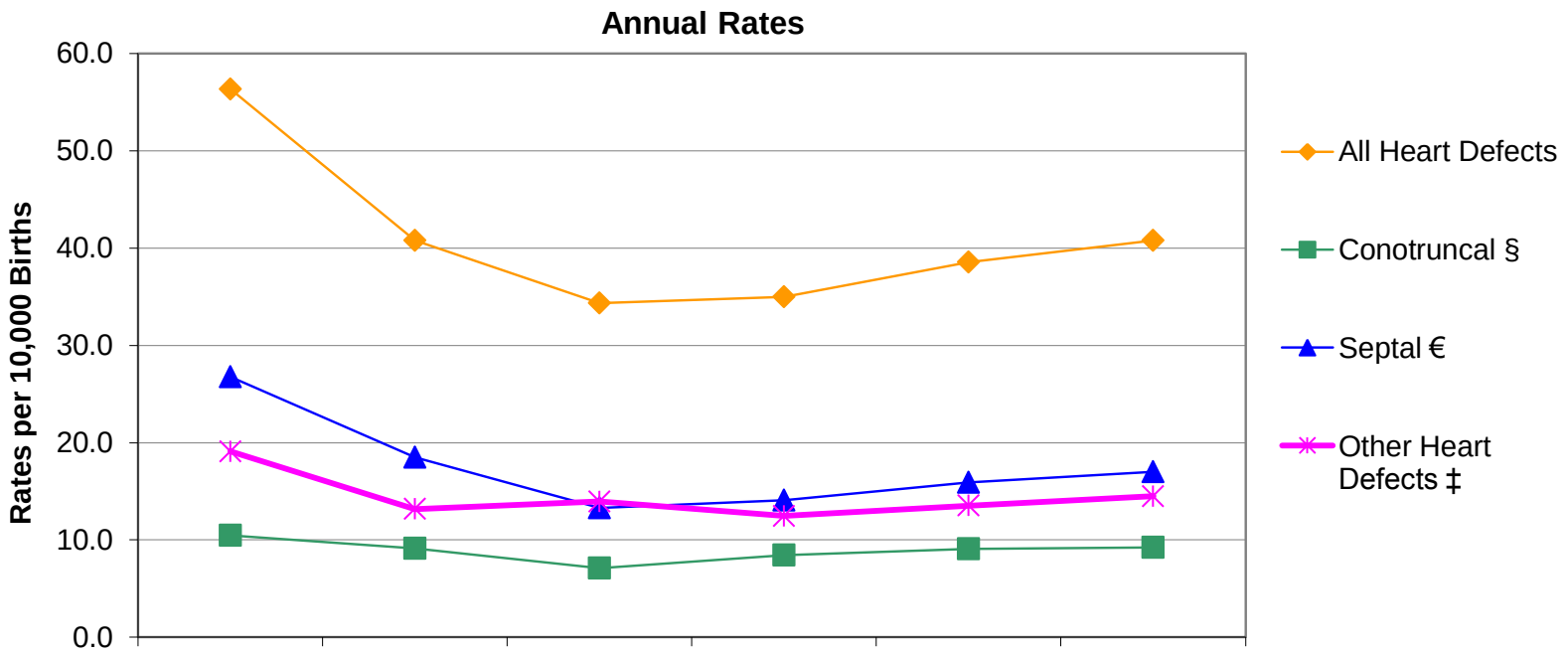
California Birth Defects Monitoring Program Data (1997-2006)

Rates of Heart Defects

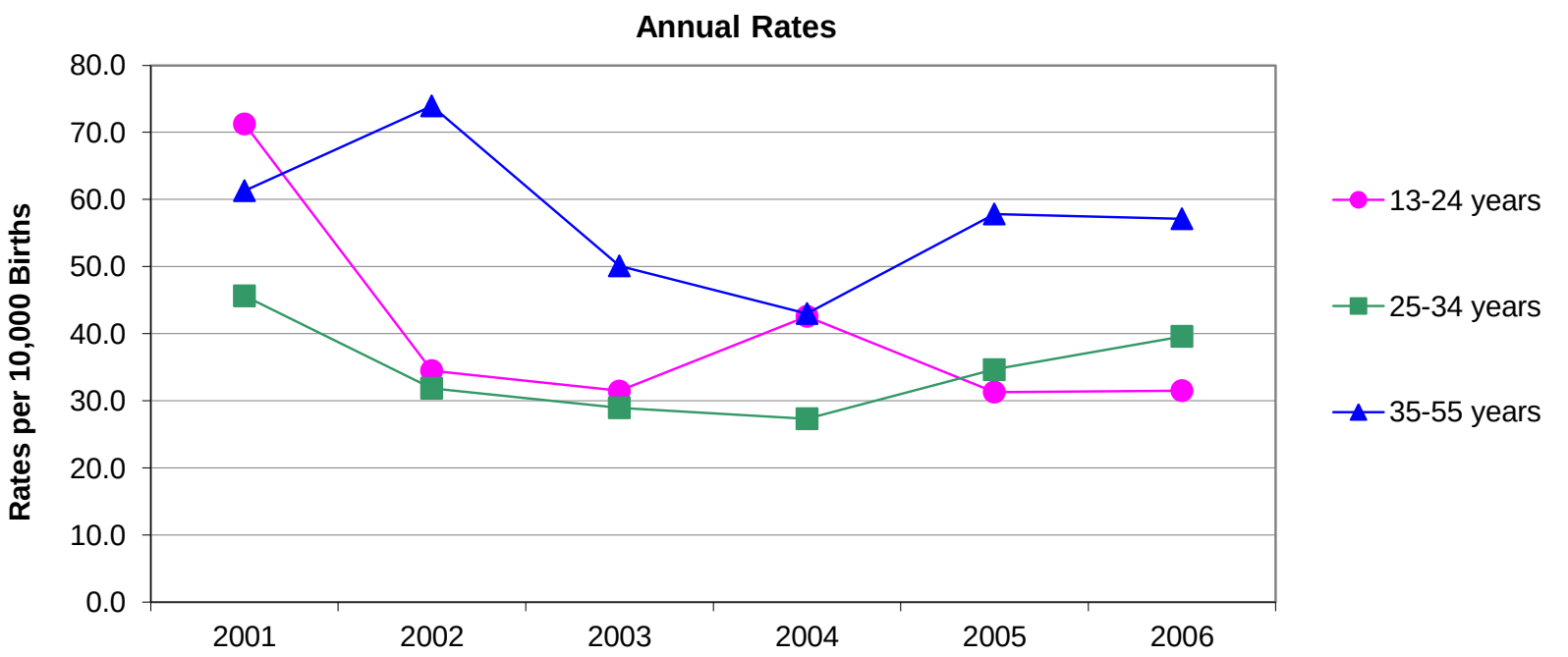
San Diego (2001-2006) and Orange Counties (2003-2006)



Annual and 10-Year Rates per 10,000 Live Births & Fetal Deaths of Heart Defects for San Diego (2001-2006) and Orange (2003-2006) Counties

Category	1997*	1998*	1999*	2000*	2001**	2002**	2003	2004	2005	2006	1997 – 2006 (95% CI)
All Heart Defects					56.3	40.8	34.3	35.0	38.5	40.8	39.4 (37.5 - 41.4)
Conotruncal §					10.4	9.1	7.1	8.4	9.1	9.3	8.7 (7.8 - 9.7)
Septal €					26.8	18.5	13.3	14.1	15.9	17.0	16.6 (15.3 - 17.9)
Other Heart Defects ‡					19.1	13.2	13.9	12.5	13.5	14.5	14.1 (13.0 - 15.3)

Rates of Heart Defects by Mother's Age



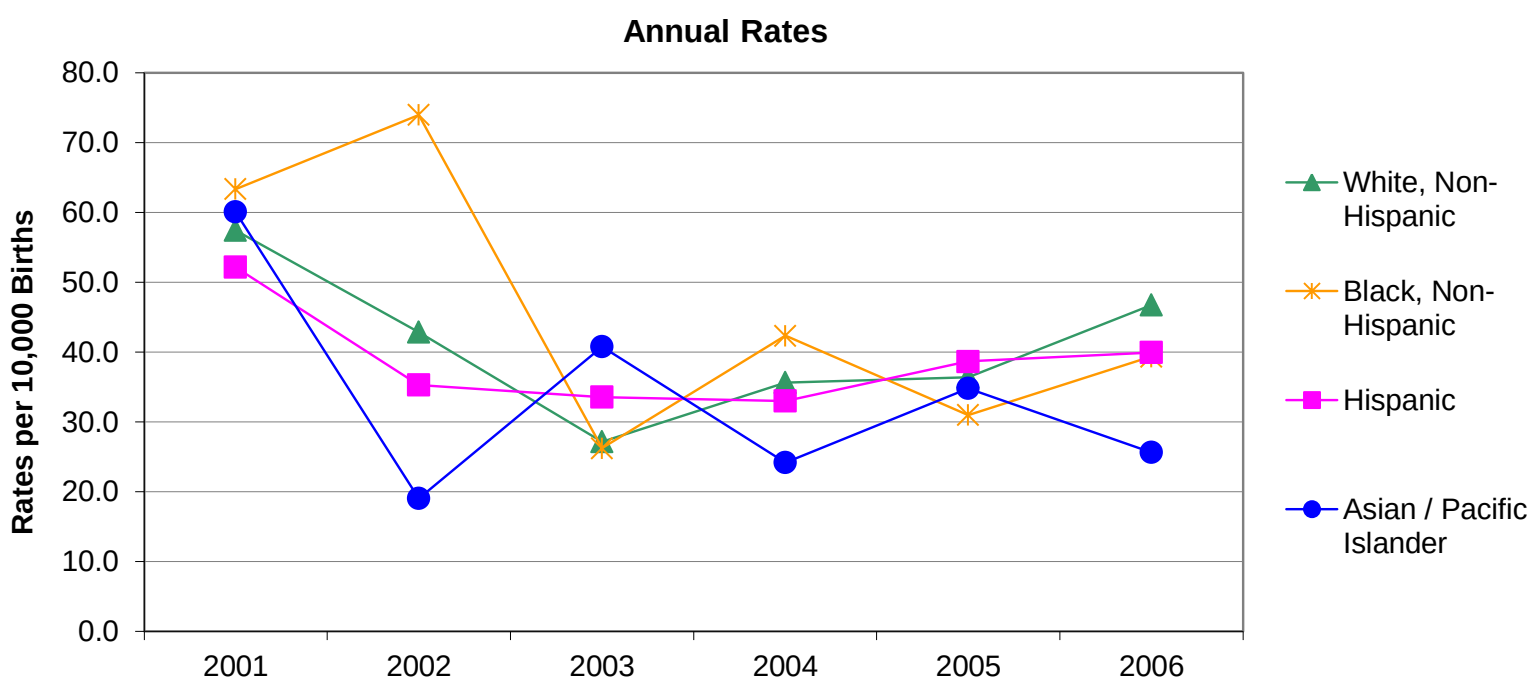
Annual and 10-Year Rates per 10,000 Live Births & Fetal Deaths of Heart Defects for San Diego (2001-2006) and Orange (2003-2006) Counties by Mother's Age

Category	1997*	1998*	1999*	2000*	2001**	2002**	2003	2004	2005	2006	1997 – 2006 (95% CI)
13-24 Years					71.2	34.5	31.5	42.6	31.3	31.5	38.2 (34.6 - 42.0)
25-34 Years					45.6	31.9	28.9	27.4	34.7	39.6	33.8 (31.4 - 36.4)
35-55 Years					61.3	74.0	50.1	43.0	57.9	57.1	55.0 (49.8 - 60.5)
Unknown/Missing †					714.3	2500.0	3333.3	1428.6	909.1	0.0	1287.1 (685.3 - 2201.0)

* Data for 1997-2000 unavailable
** Includes San Diego County only
† Not represented on graph due to variability, secondary to small numbers
§ Includes: 1) Common Truncas, 2) Transposition of the Great Arteries (includes only cases with complete transposition or double outlet right ventricle), and 3) Tetralogy of Fallot (includes cases with pulmonary atresia with VSD)
€ Includes: 1) Endocardial Cushion Defect, 2) Ventricular Septal Defect (If the VSD is a component of another major heart malformation, it is not counted as a separate defect. Muscular VSDs are excluded. VSD is excluded if double outlet right ventricle (DORV) or single ventricle or common truncus is present), and 3) Atrial Septal Defect (If the ASD is a component of another major heart malformation, it is not counted as a separate defect.)
‡ Includes: 1) Single Ventricle, 2) Aortic Valve Stenosis, 3) Atrial Isomerism , 4) Coarctation of the Aorta, 5) Tricuspid Valve Atresia, 6) Ebstein anomaly , 7) Hypoplastic Left Heart , 8) Interrupted Aortic Arch , 9) Anomalies of the Great Veins, 10) Pulmonary Valve Atresia

California Birth Defects Monitoring Program Data (1997-2006)

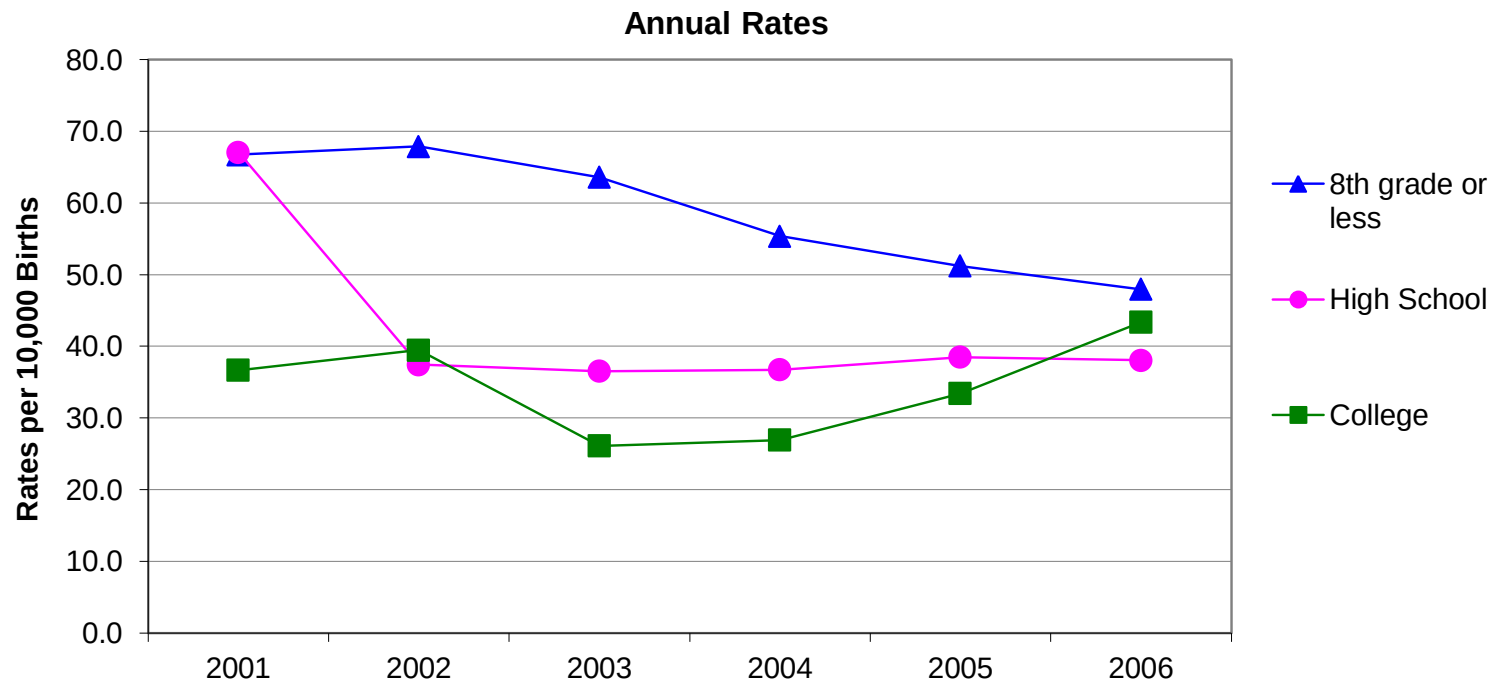
Rates of Heart Defects by Mother's Race/Ethnicity



Annual and 10-Year Rates per 10,000 Live Births & Fetal Deaths of Heart Defects for San Diego (2001-2006) and Orange (2003-2006) Counties by Mother's Race/Ethnicity

Category	1997*	1998*	1999*	2000*	2001**	2002**	2003	2004	2005	2006	1997 – 2006 (95% CI)
White, Non-Hispanic					57.4	42.9	27.1	35.6	36.4	46.7	39.3 (36.0 - 42.9)
Black, Non-Hispanic					63.3	74.0	26.2	42.3	31.0	39.4	45.9 (34.4 - 60.0)
Hispanic					52.2	35.3	33.5	33.0	38.6	39.9	37.7 (35.0 - 40.6)
Asian / Pacific Islander					60.1	19.1	40.8	24.2	34.8	25.6	32.6 (27.8 - 38.0)
American Indian †					54.9	274.7	47.6	118.1	0.0	0.0	78.9 (37.8 - 145.0)
Other Race/Unknown †					165.6	158.4	164.4	81.4	74.8	58.5	87.6 (71.4 - 106.5)

Rates of Heart Defects by Mother's Education



Annual and 10-Year Rates per 10,000 Live Births & Fetal Deaths of Heart Defects for San Diego (2001-2006) and Orange (2003-2006) Counties by Mother's Education

Category	1997*	1998*	1999*	2000*	2001**	2002**	2003	2004	2005	2006	1997 – 2006 (95% CI)
8th Grade or less					66.7	67.9	63.6	55.4	51.2	48.0	57.1 (49.8 - 65.2)
High School					67.1	37.4	36.5	36.7	38.5	38.0	40.7 (37.5 - 44.0)
College					36.6	39.5	26.1	26.9	33.4	43.4	33.6 (31.0 - 36.4)
Unknown/Missing †					330.1	26.0	25.8	50.5	52.4	30.5	48.5 (39.6 - 58.8)

* Data for 1997-2000 unavailable
** Includes San Diego County only
† Not represented on graph due to variability, secondary to small numbers